

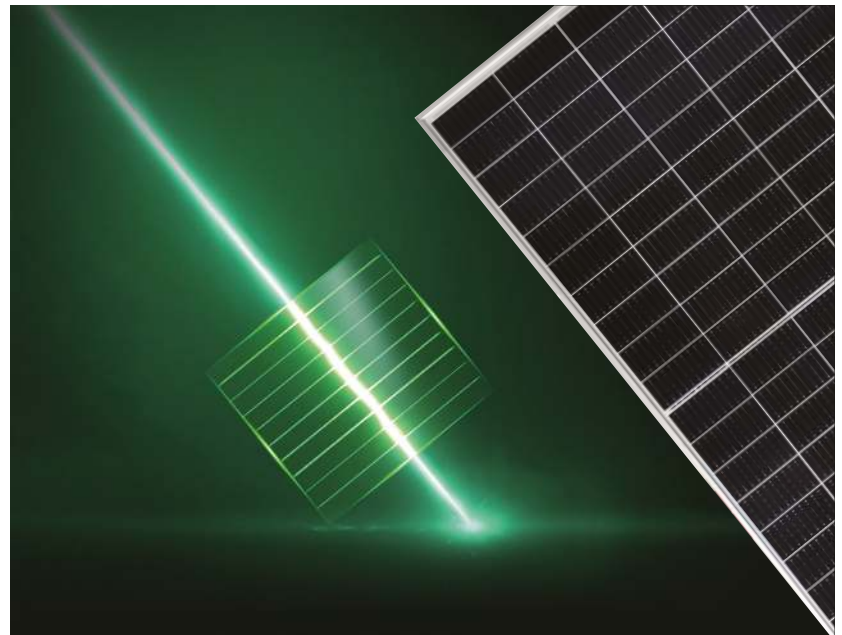
MP-MF8613M (HV)-460W MONOCRYSTALLINE MODULE



Certificates

IEC 61215, IEC 61730, CE SO 14001:2015:
Environmental Management System

ISO 9001:2015: ISO 45001:2018:
Quality Management System Occupational Health and
Safety Management System



Key Features

- 9 Busbar Solar Cell**
 9 busbar cell design improves module efficiency and offers better aesthetic appearance for rooftop in stallation.
- High Efficiency**
 Higher module conversion efficiency (up to 24.67%) benefit from Passivated Emmitter Rear Contact (PERC) technology.
- PID Resistance**
 Excellent Anti-PID performance guarantee limited power degradation for mass production.
- Low-light Performance**
 Advanced glass and cell surface textured design ensure excellent performance in low-light environment.
- Severe Weather Resilience**
 Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).
- Durability Against Extreme Environmental Conditions**
 High salt mist and ammonia resistance certified by TUV NORD.

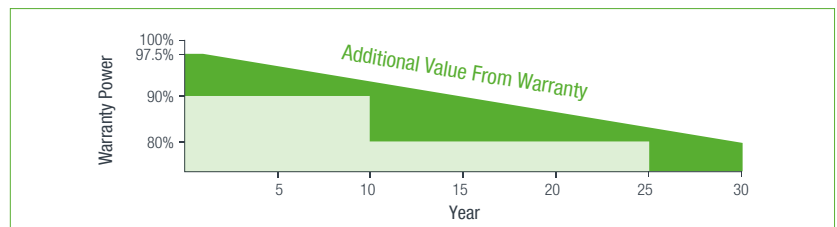
Special Warranty



Product Warranty



Linear Power Output Warranty



Electrical Characteristics at STC

Nominal Power (Pmax)	460 W
Open Circuit Voltage (VOC)	51.4 V
Short Circuit Current (ISC)	11.06 A
Voltage at Nominal Power (Vmp)	42.8 V
Current at Nominal Power (Imp)	10.75 A
Module Efficiency (%)	21.12
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000 VDC / 1500 VDC
Fire Resistance Rating	Type 1 (in accordance with 1703) / Class C (IEC61730)
Maximum Series Fuse Rating	20 A

STC: Irradiance 1000 W/m², Cell temperature 25°C, AM1.5G

SOLAR PANEL

MP-MF8613M(HV)-460W **MasterPower**
Unlimited power

Electrical Characteristics at NOCT

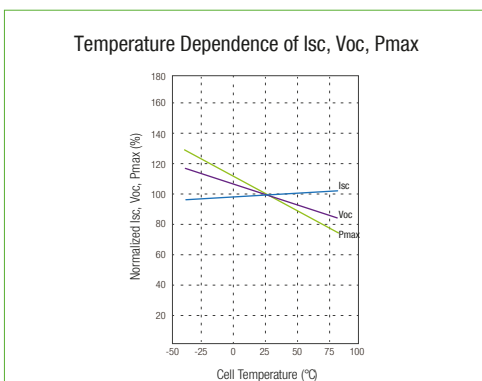
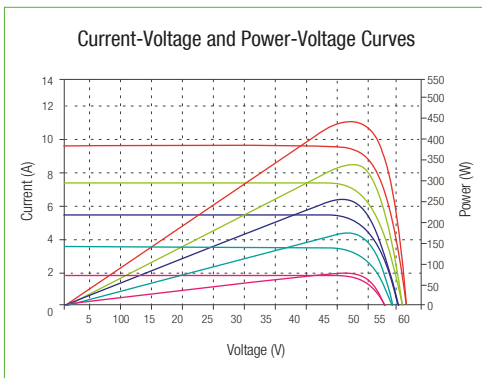
Nominal Power (Pmax)	333 W
Open Circuit Voltage (VOC)	47.8 V
Short Circuit Current (ISC)	8.95 A
Voltage at Nominal Power (Vmp)	38.8 V
Current at Nominal Power (Imp)	8.56 A

NOCT: Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s, AM1.5G

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature Coefficients of Pmax	-0.39% / °C
Temperature Coefficients of VOC	-0.30% / °C
Temperature Coefficients of ISC	0.06% / °C

IV Curves



Mechanical Characteristics

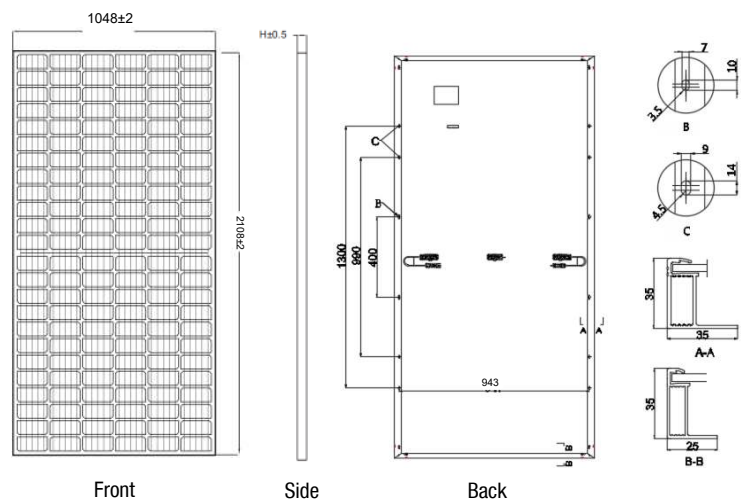
Cell type	Mono 166 x 166 mm
Number of cells	144 (6 x 24)
Module dimensions	2108 x 1048 x 35 mm
Weight	25 kg
Front cover	3.2 mm, Anti-Reflection Coating, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction box	IP67 Rated
Cable	TÜV 1 x 4.0 mm ² , Length: 300 mm or Customized Length
Connector	PV Connector (compatible)

Packaging

Standard packaging	31 pcs / pallet
Module quantity per 20' container	285 pcs
Module quantity per 40' container	570 pcs (GP) / 682 pcs (HQ)

Engineering Drawings

Units: mm (inch)
Tolerance: Length: ± 2 mm
Width: ± 2 mm
Height: ± 1 mm
Pitch-row: ± 1 mm



Specifications are subject to change without prior notice.



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